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(54) PROPYLENE RANDOM COPOLYMER AND USE THEREOF

(57)Abstract:

PURPOSE: To provide the titled copolymer composed of propylene and an α -olefin, having narrow molecular weight distribution and compositional distribution, specific intrinsic viscosity, melting point, solubility and ^{13}C -NMR spectrum and excellent transparency and tensile characteristics and useful as a packaging film, etc.

CONSTITUTION: Propylene and a 4W20C α -olefin are copolymerized in the presence of a catalyst composed of an indenyl group-containing zirconium compound and alumino-oxane to obtain the objective copolymer composed of 40W90mol% propylene component and 10W60mol% α -olefin component, having an intrinsic viscosity $[\eta]$ of 0.5W6dl/g measured in decalin at 135° C, a molecular weight distribution (M_w/M_n) of ≤ 3 and a melting point and crystallinity of 40W140° C and 1W50% respectively measured by differential scanning calorimeter, containing $\leq 1\text{wt\%}$ component soluble in boiling methyl acetate and $\leq 4 \times [\eta] - 1.2\text{wt\%}$ component soluble in acetone/n-decane mixture (1/1 by volume) at 10° C, free from the signal of two adjacent methylene chains between two adjacent tert-carbon atoms in the main chain measured by ^{13}C -NMR spectrum and having a standard deviation of compositional distribution of $\leq 10\text{mol\%}$.

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